QC ABSTRACT

Nameof Work:Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	1:3:6	75.56 Cum	1	1	Pass
2	Steel	9.18 Tonne	1	1	Pass
3	M20	152.96 Cum	7	7	Pass
4	Slab (100mm)	343.35Sqm	1	1	Pass
5	Slab (230mm)	36.00Sqm	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

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Authorised Signatory

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Job No.: CACE/BBMP/BPS/W No.07/2022-23 Date: 01.03.2023.

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Bytarayanapura Sub division, BBMP, Bangalore.
AGENCY	:	**Sri .B P Shanmugam ,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		Jan- 2023
DATE OF TESTING		27.02.2023 to 01.03.2023.
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

SLNo	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

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Job No.: CACE/BBMP/BPS/W No.07/2022-23 Date : 01.03.2023.

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of Work :Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Date of Testing : 01.03.2023.

Material : Sand(Masonry) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	26	2.60	2.60	97.4	90-100
1.18	52	5.20	7.80	92.2	70-100
600 Micron	115	11.50	19.30	80.7	40-100
300 Micron	254	25.40	44.70	55.3	5-70
150 Micron	502	50.20	94.90	5.1	0-15

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Job No.: CACE/BBMP/BPS/W No.07/2022-23 Date :01.03.2023.

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of Work :Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Date of Testing :01.03.2023.

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	92	9.20	9.20	90.8	90-100
2.36	142	14.20	23.40	76.6	75-100
1.18	178	17.80	41.20	58.8	55-90
600 Micron	185	18.50	59.70	40.3	35-59
300 Micron	253	25.30	85.00	15.0	8-30
150 Micron	129	12.90	97.90	2.1	0-10

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Job No.: CACE/BBMP/BPS/W No.07/2022-23 Date :01.03.2023.

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of Work :Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Date of Testing :01.03.2023.

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	195	3.9	3.9	96.1	95-100
10	2539	50.8	54.7	45.3	25-55
4.75	1947	38.9	93.6	6.4	0-10

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Job No.: CACE/BBMP/BPS/W No.07/2022-23 Date :01.03.2023.

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of Work :Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Date of Testing :01.03.2023.

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	183	1.22	1.22	98.78	95-100
20	8249	54.99	56.21	43.79	30-70
10	3291	21.94	78.15	21.85	10-35
4.75	2849	18.99	97.15	2.85	0-5

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Job No.: CACE/BBMP/BPS/W No.07/2022-23 Date : 01.03.2023.

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

AGENCY : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of Work :Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Steel Dia/Length : 10mm Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 01.03.2023.

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	10	0.619	562	651	1.16	14.5

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Job No.: CACE/BBMP/BPS/W No.07/2022-23 Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.

Agency : Sri .B P Shanmugam , Contractor, Bangalore.

Name of the work : Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2023	27.03.2023	8.136	365.2	16.23
2	20.03.2023	27.03.2023	8.154	326.2	14.50
3	20.03.2023	27.03.2023	8.110	345.2	15.34

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Job No.: CACE/BBMP/BPS/W No.07/2023-24 Date: 17.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**
Agency	**: Sri .B P Shanmugam , Contractor, Bangalore.**
Name of the work	: Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.
Sample ID	: Cement Concrete for Raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2023	17.04.2023	8.184	502.2	22.32
2	20.03.2023	17.04.2023	8.169	484.6	21.54
3	20.03.2023	17.04.2023	8.155	496.2	22.05

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Job No.: CACE/BBMP/BPS/W No.07/2022-23 Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of the work : Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2023	27.03.2023	8.184	336.3	14.95
2	20.03.2023	27.03.2023	8.145	349.5	15.53
3	20.03.2023	27.03.2023	8.158	352.4	15.66

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Job No.: CACE/BBMP/BPS/W No.07/2023-24 Date: 17.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of the work : Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2023	17.04.2023	8.144	505.2	22.45
2	20.03.2023	17.04.2023	8.156	516.2	22.94
3	20.03.2023	17.04.2023	8.138	484.9	21.55

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬ.ಬ.ಮ.ಪ, ಬೆಂಗಳೂರು-26

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/BPS/W No.07/2022-23 Date: 30.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of the work : Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2023	30.03.2023	8.177	338.5	15.04
2	23.03.2023	30.03.2023	8.156	346.5	15.40
3	23.03.2023	30.03.2023	8.168	352.9	15.68

Note:
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Job No.: CACE/BBMP/BPS/W No.07/2023-24 Date: 20.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**
Agency	**: Sri .B P Shanmugam , Contractor, Bangalore.**
Name of the work	: Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2023	20.04.2023	8.152	500.5	22.24
2	23.03.2023	20.04.2023	8.139	513.2	22.81
3	23.03.2023	20.04.2023	8.166	484.9	21.55

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Job No.: CACE/BBMP/BPS/W No.07/2022-23

Date: 30.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.
Agency	: Sri .B P Shanmugam , Contractor, Bangalore.
Name of the work	: Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2023	30.03.2023	8.136	328.6	14.60
2	23.03.2023	30.03.2023	8.156	349.6	15.54
3	23.03.2023	30.03.2023	8.164	352.4	15.66

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Job No.: CACE/BBMP/BPS/W No.07/2023-24

Date: 20.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of the work : Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2023	20.04.2023	8.145	523.2	23.25
2	23.03.2023	20.04.2023	8.165	508.9	22.62
3	23.03.2023	20.04.2023	8.148	516.2	22.94

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Job No.: CACE/BBMP/BPS/W No.07/2022-23

Date: 31.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of the work : Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2023	31.03.2023	8.166	329.3	14.64
2	24.03.2023	31.03.2023	8.128	365.2	16.23
3	24.03.2023	31.03.2023	8.150	345.5	15.36

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Job No.: CACE/BBMP/BPS/W No.07/2023-24 Date: 21.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**
Agency	**: Sri .B P Shanmugam , Contractor, Bangalore.**
Name of the work	: Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.
Sample ID	: Cement Concrete for Raft
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2023	21.04.2023	8.118	512.2	22.76
2	24.03.2023	21.04.2023	8.165	500.3	22.24
3	24.03.2023	21.04.2023	8.128	476.0	21.15

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Job No.: CACE/BBMP/BPS/W No.07/2023-24

Date: 03.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of the work : Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2023	03.04.2023	8.115	335.1	14.89
2	27.03.2023	03.04.2023	8.127	338.7	15.05
3	27.03.2023	03.04.2023	8.130	342.9	15.24

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Job No.: CACE/BBMP/BPS/W No.07/2023-24 Date: 24.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**
Agency	**: Sri .B P Shanmugam , Contractor, Bangalore.**
Name of the work	: Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2023	24.04.2023	8.145	513.6	22.83
2	27.03.2023	24.04.2023	8.159	518.7	23.05
3	27.03.2023	24.04.2023	8.163	521.4	23.17

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Job No.: CACE/BBMP/BPS/W No.07/2023-24 Date: 03.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**

Agency : **Sri .B P Shanmugam , Contractor, Bangalore.**

Name of the work : Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2023	03.04.2023	8.160	339.9	15.11
2	27.03.2023	03.04.2023	8.167	342.8	15.24
3	27.03.2023	03.04.2023	8.172	346.3	15.39

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Job No.: CACE/BBMP/BPS/W No.07/2023-24 Date: 24.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.**
Agency	**: Sri .B P Shanmugam , Contractor, Bangalore.**
Name of the work	: Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2023	24.04.2023	8.191	511.3	22.72
2	27.03.2023	24.04.2023	8.199	514.7	22.88
3	27.03.2023	24.04.2023	8.205	518.1	23.03

Note:
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PLKanth
Authorised Signatory

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Job No.: CACE/BBMP/BPS/W No.07/2023-24 Date: 10.04.2023

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Bytarayanapura Sub division, BBMP,**
Contractor	:	**: Sri .B P Shanmugam , Contractor, Bangalore.**
Name of Work	:	:Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	10.04.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.377	2430.44	1.58	0.955	32.50	16.55	17.88	17.07	21.33
2	50.00	81.00	0.379	2383.00	1.62	0.959	32.90	16.76	18.10	17.35	21.69
3	50.00	83.00	0.383	2350.12	1.66	0.963	33.30	16.96	18.32	17.64	22.05

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BPS/W No.07/2023-24 Date: 12.04.2023

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client : : Assistant Executive Engineer, Bytarayanapura Sub division, BBMP, Bangalore.

Contractor : : Sri .B P Shanmugam , Contractor, Bangalore.

Name of Work : :Improvements to Drains and Construction of Culverts at Thanisandra Govt. School Surrounding in ward No.07 Thanisandra , BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 12.04.2023

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	109.00	1.764	2543.88	1.21	0.915	112.20	17.64	19.05	17.42	21.78
2	90.00	111.00	1.772	2509.38	1.23	0.917	112.90	17.75	19.17	17.58	21.97
3	90.00	113.00	1.779	2474.70	1.26	0.920	113.50	17.84	19.27	17.72	22.15

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